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Full Record**Details for HUGENEFL:M64347_AT****Full Screen**
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GeneChip Array Information
Probe Set ID M64347_at
**GeneChip
Array** HumanGeneFL Array
**Organism
Common
Name** Human
Probe Design Information
Transcript ID M64347
**Sequence
Type** Exemplar sequence
**Representative
Public ID** M64347 [NCBI](#)
**Target
Description** M64347, class A, 20 probes, 20 in M64347 3336-3720, Human novel growth factor receptor mRNA, 3' cds
Genomic Alignment of Target Sequence**Assembly** April 2003 (NCBI 33)

Alignment(s)	Position	% Identity	Cytoband
chr4: 1771773-1772182 (+)	UCSC	93	p16.3

Representative Transcript	UniGene Description	Position
NM_000142 NCBI	fibroblast growth factor receptor 3 (achondroplasia, thanatophoric dwarfism)	chr4:1757261-1772237 (+) UCSC
NM_022965 NCBI	fibroblast growth factor receptor 3 (achondroplasia, thanatophoric dwarfism)	chr4:1757261-1772237 (+) UCSC

**Overlapping
Transcripts****Public Domain and Genome References**
Gene Title fibroblast growth factor receptor 3 (achondroplasia, thanatophoric dwarfism)
Gene Symbol FGFR3 [HGNC](#)
**Chromosomal
Location** 4p16.3
UniGene ID Hs.1420 [NCBI](#) (FULL LENGTH)
Ensembl ENSG00000068078 [Ensembl](#)
LocusLink 2261 [NCBI](#)
 P22607 [EMBL-EBI](#)

SwissProt	Q96T34	EMBL-EBI
	Q96T35	EMBL-EBI
	Q96T36	EMBL-EBI
	Q9NRB6	EMBL-EBI
EC	2.7.1.112	
OMIM	134934	NCBI
RefSeq Protein ID	NP_000133	NCBI
	NP_075254	NCBI
RefSeq	RefSeq Transcript ID RefSeq Title	
	NM_000142	NCBI fibroblast growth factor receptor 3 isoform 1 precursor
	NM_022965	NCBI fibroblast growth factor receptor 3 isoform 2 precursor

Functional Annotations

	ID	Title	Organism	Type
Ortholog	DROSGENOME1:143549_AT	breathless	Drosophila	Putative Ortholog
	RAE230A:1369373_AT	fibroblast growth factor receptor 3	Rat	Putative Ortholog
	RAE230B:1384056_AT	fibroblast growth factor receptor 3	Rat	Putative Ortholog
	RAE230B:1384829_AT	fibroblast growth factor receptor 3	Rat	Putative Ortholog
	RG-U34B:RC_AA899336_AT	fibroblast growth factor receptor 3	Rat	Putative Ortholog
	RG-U34C:RC_AI136304_AT	fibroblast growth factor receptor 3	Rat	Putative Ortholog
	RG-U34C:RC_AI145424_AT	fibroblast growth factor receptor 3	Rat	Putative Ortholog
	MG-U74AV2:160919_R_AT	fibroblast growth factor receptor 3	Mouse	Curated Ortholog
	MG-U74AV2:162253_I_AT	fibroblast growth factor receptor 3	Mouse	Curated Ortholog
	MOE430A:1421841_AT	fibroblast growth factor receptor 3	Mouse	Curated Ortholog
	MOE430A:1425796_A_AT	fibroblast growth factor receptor 3	Mouse	Curated Ortholog
	MU11KSUBA:M81342_S_AT	fibroblast growth factor receptor 3	Mouse	Curated Ortholog
	MOUSE430_2:1421841_AT	fibroblast growth factor receptor 3	Mouse	Curated Ortholog
	MOUSE430_2:1425796_A_AT	fibroblast growth factor receptor 3	Mouse	Curated Ortholog
	MOUSE430A_2:1421841_AT	fibroblast growth factor receptor 3	Mouse	Curated Ortholog
	MOUSE430A_2:1425796_A_AT	fibroblast growth factor receptor 3	Mouse	Curated Ortholog

GO Biological Process (view graph)

ID	Description	Evidence	Links
165	MAPKKK cascade	experimental evidence	QuickGO AmiGO
1501	skeletal development	predicted/computed	QuickGO AmiGO
7048	oncogenesis	experimental evidence	QuickGO AmiGO
7259	JAK-STAT cascade	experimental	QuickGO

8543 FGF receptor signaling pathway		evidence experimental evidence	AmiGO QuickGO AmiGO	
GO Cellular Component (view graph)				
Gene Ontology	ID	Description	Evidence	Links
	5887	integral to plasma membrane	experimental evidence	QuickGO AmiGO
GO Molecular Function (view graph)				
	ID	Description	Evidence	Links
	5007	fibroblast growth factor receptor activity	experimental evidence	QuickGO AmiGO
Protein Similarities	Method	ID	Description	E-Value
	blast	13112048	fibroblast growth factor receptor 3 isoform 2 precursor; hydroxyaryl-protein kinase; tyrosine kinase JTK4 [Homo sapiens]	0.0
	blast	13186255	fibroblast growth factor receptor 2 isoform 3 precursor; keratinocyte growth factor receptor; K-sam protein; protein tyrosine kinase, receptor like 14; FGF receptor; bacteria-expressed kinase; fibroblast growth factor receptor BEK; tyrosylprotein kinase; hydroxyaryl-protein kinase [Homo sapiens]	0.0
	blast	4503711	fibroblast growth factor receptor 3 isoform 1 precursor; hydroxyaryl-protein kinase; tyrosine kinase JTK4 [Homo sapiens]	0.0
	blast	20452380		0.0
Protein Families	Method	ID	Description	E-Value
	Hanks	FGFR-3	FGR3_HUMAN (FGFR-3) KINASES:5.6.3 PTK Group B membrane spanning protein tyrosine kinases.PTK XV Fibroblast growth factor receptor family .FGFR-3	1.0E-166
	ec	ZA70_HUMAN	ZA70_HUMAN EC:2.7.1.112:TYROSINE-PROTEIN KINASE ZAP-70 (EC 2.7.1.112) (70 KDA ZETA-ASSOCIATED PROTEIN) (SYK-RELATED TYROSINE KINASE).	7.38E-99
	Hanks	FGFR-3	FGR3_HUMAN (FGFR-3) KINASES:5.6.3 PTK Group B membrane spanning protein tyrosine kinases.PTK XV Fibroblast growth factor receptor family .FGFR-3	1.0E-167
	ec	ZA70_HUMAN	ZA70_HUMAN EC:2.7.1.112:TYROSINE-PROTEIN KINASE ZAP-70 (EC 2.7.1.112) (70 KDA ZETA-ASSOCIATED PROTEIN) (SYK-RELATED TYROSINE KINASE).	7.38E-99
	Database	ID	Description	E-Value
	scop	d1gjoa_	d1gjoa_ SCOP:d.144.1.2: Fibroblast growth factor receptor 2	3.81E-81
	scop	d1ev2e1	d1ev2e1 SCOP:b.1.1.4: Fibroblast growth factor receptor, FGFR	4.95E-21
	scop	d1gjoa_	d1gjoa_ SCOP:d.144.1.2: Fibroblast growth factor receptor 2	3.81E-81

Protein Domains	scop	d1ev2e1	d1ev2e1 SCOP:b.1.1.4: Fibroblast growth factor receptor, FGFR	4.25E-21
	pfam	ig	Immunoglobulin domain	1.6E-5
	pfam	ig	Immunoglobulin domain	3.2E-8
	pfam	pkinase	Protein kinase domain	2.3E-92
	pfam	ig	Immunoglobulin domain	1.6E-5
	pfam	ig	Immunoglobulin domain	3.2E-8
	pfam	pkinase	Protein kinase domain	2.3E-92
	pfam	ig	Immunoglobulin domain	7.3E-8
	InterPro	IPR000719	Protein kinase	
		EMBL-EBI		
Protein Domains	InterPro	IPR007110	Immunoglobulin-like	
		EMBL-EBI		
	InterPro	IPR001245	Tyrosine protein kinase	
		EMBL-EBI		
Protein Domains	InterPro	IPR008266	Tyrosine protein kinase, active site	
		EMBL-EBI		
Protein Domains	InterPro	IPR003598	Immunoglobulin C-2 type	
		EMBL-EBI		

Trans Membrane

ID	Number Of Domains	Probability of Interior N-Terminus
NP_000133	2	0.11005

Sequence

>HUGENEFL:M64347_AT
gacttcaaagcaagctggtatTTTTcatacaaattcttctaattgctgtgtgtcccaggca
gggagacggtttccaggaggggcccctgtgtgcagggtccgatgttattagatgtt
acaagtttatatatatatatatataatttattgagttttacaagatgtatttgtgt
agacttaacacttcttacgcaatgcttctagagttttatagcctggactgctaccttca
aagcttggaggggaagccgtgaattcagttggttcgttctgtactgttactgggcccctgag
tctgggcagctgtcccttgcttgccctgcagggccatggctcagggtggtctcttcttggg
gcccagtgcatggtggccagaggtgtcacccaaaccggcaggtgcatg

Target Sequence

Probe Info	Probe Sequence(5'-3')	Probe		Probe Interrogation Position	Strandedness
		X	Y		
	GACTTCAAAGCAAGCTGGTATTTTC	359	161	3348	Antisense
	CATACAAATTCTTCTAATTGCTGTG	360	161	3372	Antisense
	AATTCTTCTAATTGCTGTGTGTCCC	361	161	3378	Antisense
	TGCTGTGTGTCCCAGGCAGGGAGAC	362	161	3390	Antisense
	TGTGTGCAGGTTCCGATGTTATTAG	363	161	3438	Antisense
	TCTTACGCAATGCTTCTAGAGTTTT	364	161	3540	Antisense
	GCAATGCTTCTAGAGTTTTATAGCC	365	161	3546	Antisense
	GAGTTTTATAGCCTGGACTGCTACC	366	161	3558	Antisense
	TGCTACCTTTCAAAGCTTGGAGGGA	367	161	3576	Antisense
	AAGCTTGGAGGGAAGCCGTGAATTC	368	161	3588	Antisense
	TGAATTCAGTTGGTTCGTTCTGTAC	369	161	3606	Antisense
	GTTTCGTTCTGTACTGTTACTGGGCC	370	161	3618	Antisense
	CTGGGCCCTGAGTCTGGGCAGCTGT	371	161	3636	Antisense
	CCTGAGTCTGGGCAGCTGTCCCTTG	372	161	3642	Antisense
	TCTGGGCAGCTGTCCCTTGCTTGCC	373	161	3648	Antisense
	TCCCTTGCTTGCTGCAGGGCCATG	374	161	3660	Antisense

GCTTGCCTGCAGGGCCATGGCTCAG	375	161	3666	Antisense
CTTGGGGCCCAGTGCATGGTGGCCA	376	161	3702	Antisense
GTGGCCAGAGGTGTCACCCAAACCG	377	161	3720	Antisense
GTCACCCAAACCGGCAGGTGCGATT	378	161	3732	Antisense

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